

## **ANDRITZ Safe-T-Box**

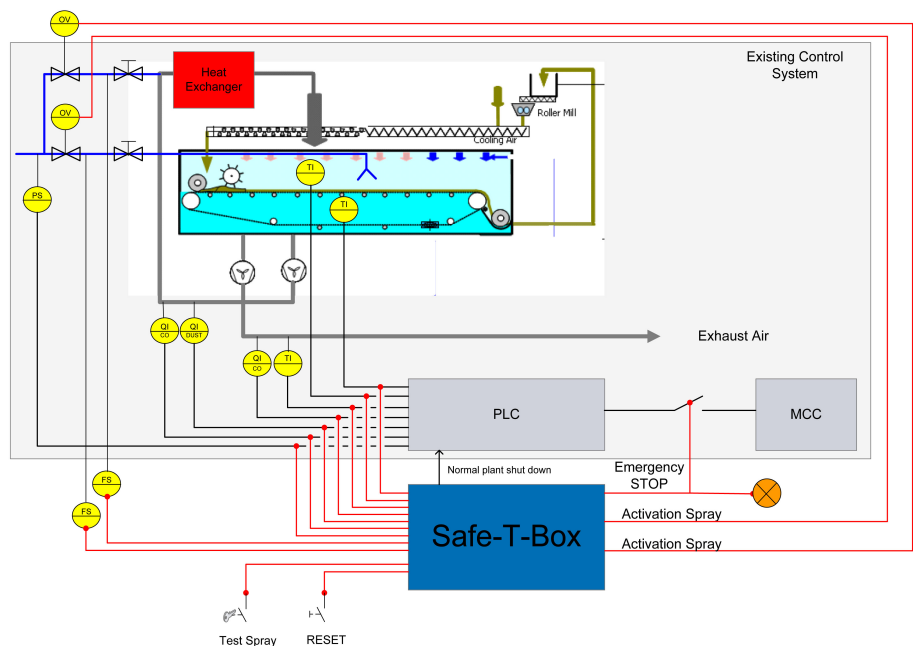
An extra level of machine and operator safety



# ANDRITZ Safe-T-Box

## Independent machine safety

The ANDRITZ Safe-T-Box was developed by ANDRITZ AUTOMATION, a leading supplier of machine and plant control systems. The ANDRITZ Safe-T-Box provides an extra level of protection for critical operations, independent of the control system. Whenever a critical measurement (such as temperature, pressure or position) fails to meet pre-defined parameters, the ANDRITZ Safe-T-Box triggers a safety action, an emergency stop or a normal shutdown of the machine. ANDRITZ Safe-T-Box only activates if the Hi-Hi signal does not trigger a safe shutdown via the control system and works even if the existing control system is in manual mode or when interlocks are not active. ANDRITZ Safe-T-Box also works if the functionality of the control system is lost and cannot be manually overridden by an operator.



### Safety has high priority

Manufacturing companies invest heavily in operator training, advanced control systems and workplace procedures to ensure safe operations. However, unsafe actions can still occur, leading to machine damage and/or human injury. The most common causes are operator errors due to lack of experience, carelessness, overriding or disabling automatic controls. Safety engineering requirements have been tightened with the EU machine directive where standards require a minimum failure rate for electrical control loops expressed as a Safety Integrity Level (SIL) rating.

### Benefits

- Critical machine and plant condition monitoring
- Activates safety actions when allowable limits are exceeded
- Independent safeguard separate from existing control system
- Optional UPS enables operation even in the event of a power failure
- Limits are programmable – but operators cannot intervene
- Works even if control system loses functionality
- No modification to PLC or DCS systems required



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